

# Bridge Inspection Report

**A2768**  
**I-30 Log 141.17**  
**over**  
**US 70 Broadway**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

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Inspector:

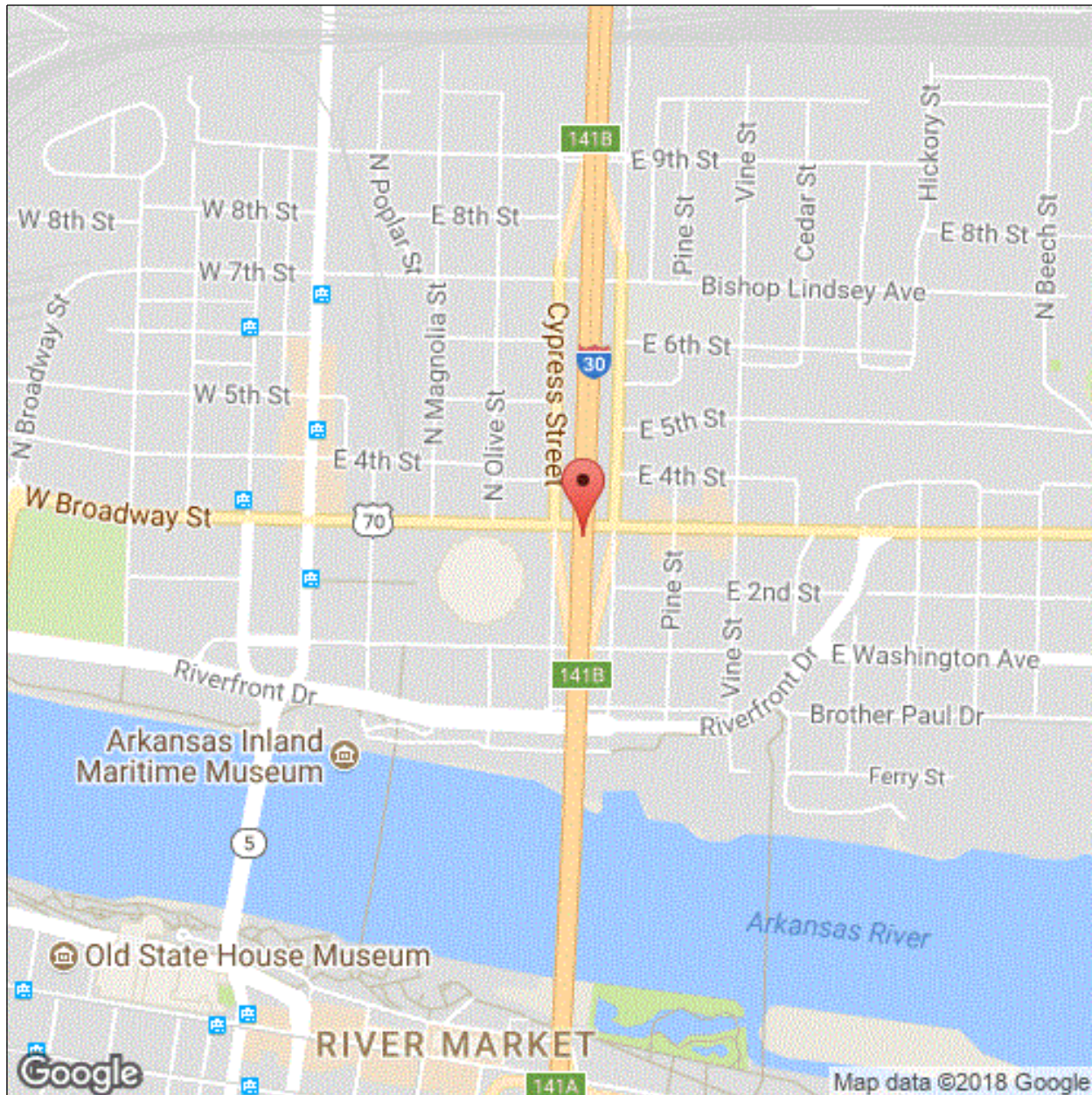
Structure Number: A2768

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### Bridge Inspection Report

### Location Map



Latitude: 34.75579

Longitude: -92.26235



Inspector:

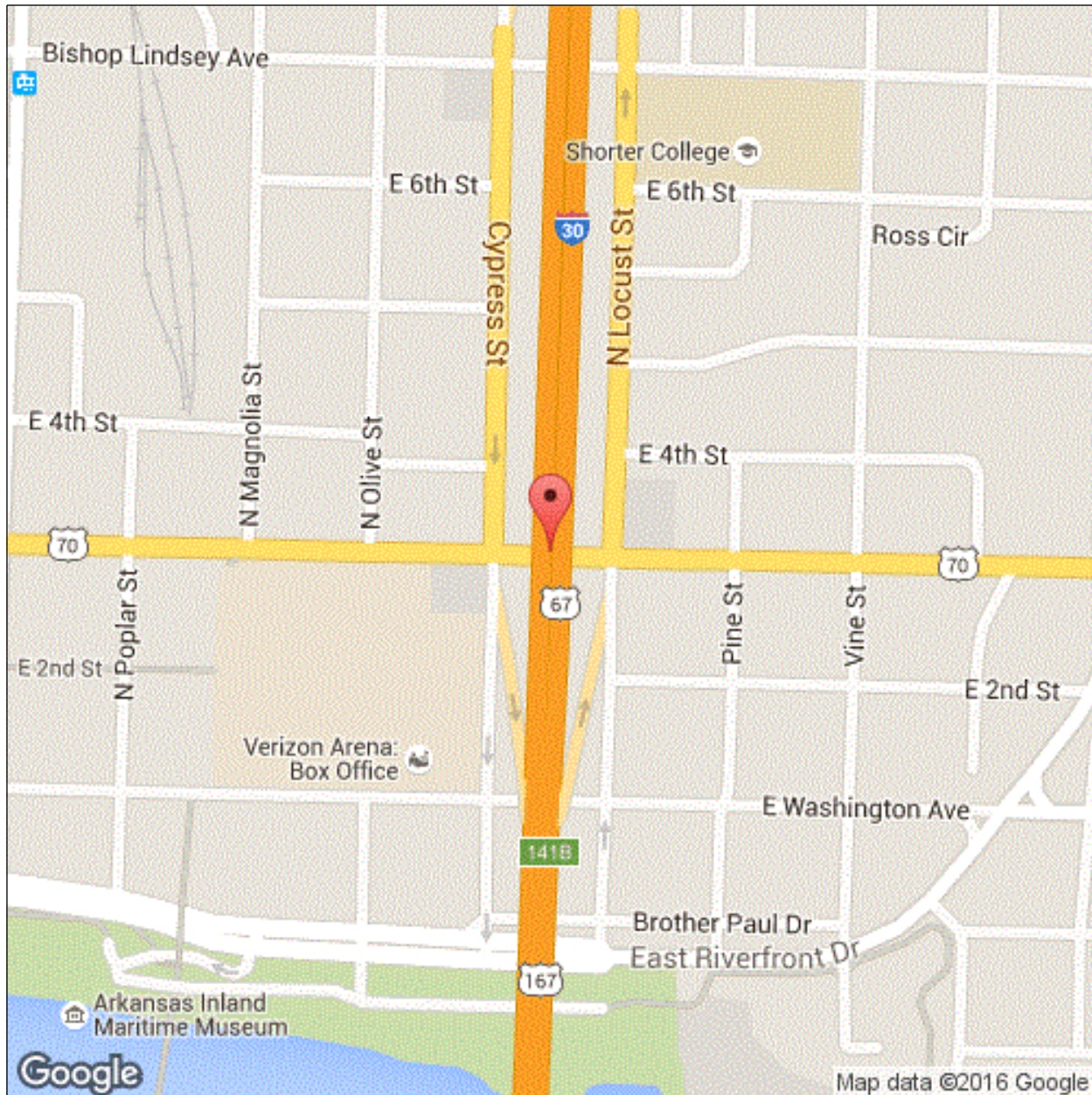
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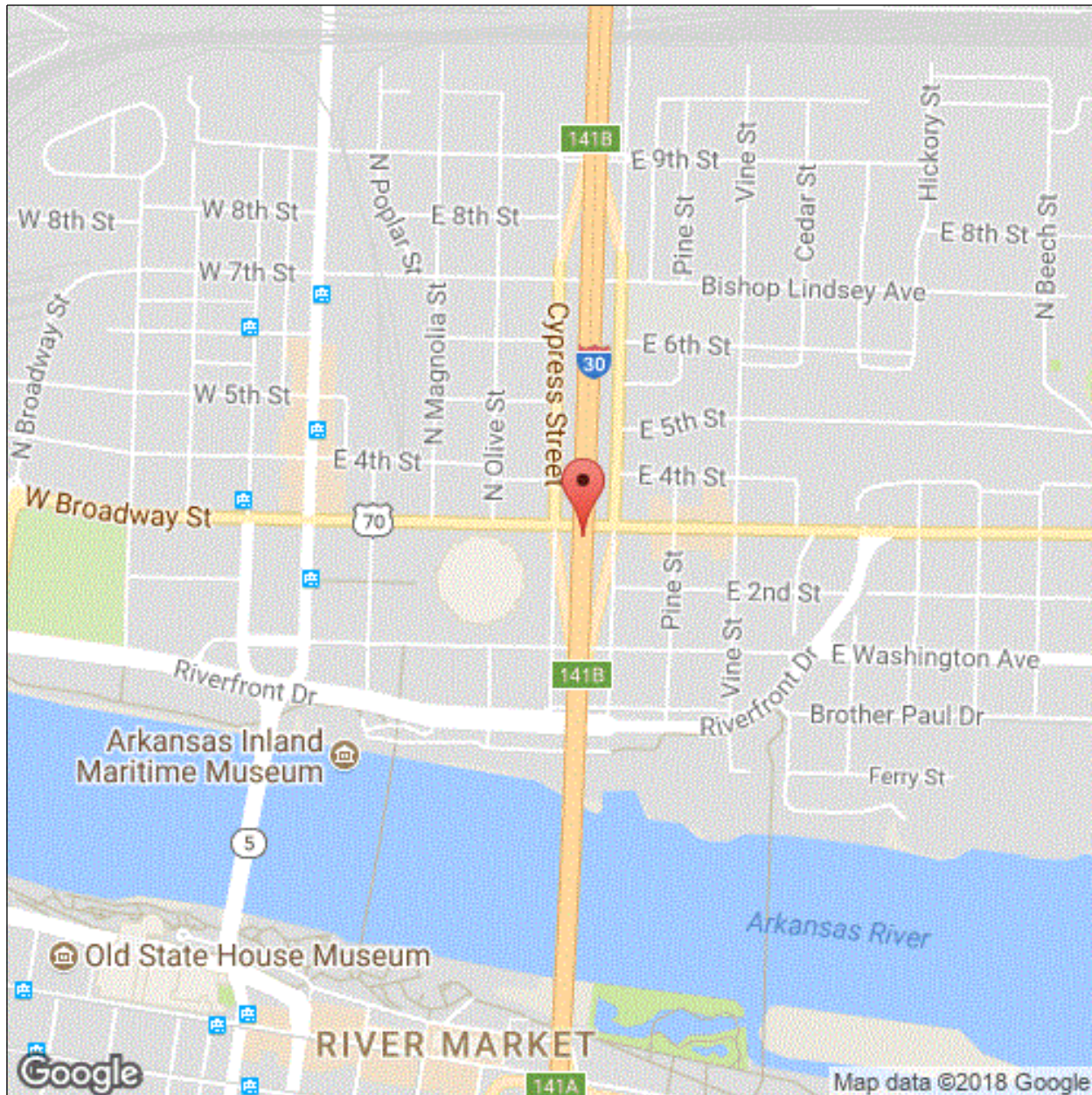
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### Location Map



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**Executive Summary**

Job 60023, 23548

Logged West/East

A man lift can be used at bent 2.

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	03/26/2018
(8) STRUCTURE NUMBER	A2768	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 30 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 119	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	47940	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	US 70 Broadway	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-30 Log 141.17		
(9) LOCATION	1.63 MI S OF I-40/I-8		
(11) MILEPOINT 141.170	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000030230 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE	34.75579 (17) LONGITUDE -92.26235		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	N (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	1 (46) NUMBER OF APPROACH	0	
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	1	
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	0	
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1961 (106) YEAR RECONSTRUCTED	6	
(42) TYPE OF SERVICE	ON 1 UNDER 1	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 06 UNDER 04	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	123000 (19) BYPASS DETOUR LENGTH	1	
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(66) INVENTORY RATING	36.0
		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	85 (49) STRUCTURE LENGTH (ft.)	6	
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(67) STRUCTURAL EVALUATION	6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	116.1	(68) DECK GEOMETRY	9
(52) DECK WIDTH, OUT-TO-OUT (ft.)	121	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(32) APPROACH ROADWAY WIDTH (ft.)	56.1	(71) WATERWAY ADEQUACY	N
(33) BRIDGE MEDIAN	3 (34) SKEW (DEG.)	0	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	8	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	56.8	(36) TRAFFIC SAFETY FEATURE	
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36A) BRIDGE RAILINGS:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	H 23.58	36B) TRANSITIONS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 9.4	36C) APPROACH GUARDRAIL:	0
(56) MIN LATERAL UNDER CLEARANCE (ft.)	9.8	36D) APPROACH GUARDRAIL ENDS:	1
		(113) SCOUR CRITICAL BRIDGES	N
		SUFFICIENCY RATING	83.2 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	35 (75B) WORK DONE BY	1	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	89.0	(112) NBIS BRIDGE LENGTH	Y
(94) BRIDGE IMPROVEMENT COST (\$)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(95) ROADWAY IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(96) TOTAL PROJECT COST	483	(100) STRAHNET HIGHWAY DESIGNATION	1
(97) YEAR OF IMPROVEMENT COST ESTIMATE	2000	(101) PARALLEL STRUCTURE DESIGNATION	N
(114) FUTURE ADT	134801 (115) YEAR OF FUTURE ADT	(102) DIRECTION OF TRAFFIC	2
		(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	10798	sq. ft.	10670	128	0	0
	3/26/2018 - KRM & RLS - Soffits have transverse cracks. Wearing surface has longitude and transverse cracks throughout structure. There was a 3.5" wearing surface put on during the wideing phase.						
1120 - Efflorescence/Rust Staining		128			128		
510 - Wearing Surfaces		9647	sq. ft.	7749	1898	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		8			8		
3220 - Crack (Wearing Surface)		1890			1890		
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	1360	ft.	1360			
	3/26/2018 - KRM & RLS - Paint is peeling in bays 12 and 13. Light freckled rust on bottom flanges and webs.						
	Several areas of peeling paint. Freckled rust on the bottom flange and active rust on the beam ends and webs.						
515 - Steel Protective Coating		12186	sq. ft.	10723	701	762	0
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		381			381		
3440 - Effectiveness (Steel Protective Coatings)		1082			320	762	
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	444	ft.	223	187	34	0
	3/26/2018 - KRM & RLS - Bents 1 and 2 have vertical and horizontal cracks and a large diagonal crack at bent 2 right. Bent 1 westbound has a 12' patch on top of back wall and bent 2 west bound has 20' asphalt patch on top of back wall and transverse cracks..						
1080 - Delamination/Spall/Patched Area		32			12	20	
1090 - Exposed Rebar		8			8		
1130 - Cracking (RC and Other)		181			167	14	
<b>301 - Pourable Joint Seal</b>	1- Ben.	121	ft.	0	0	121	0
	3/26/2018 - KRM & RLS - Pourable joint has lost adhesion and is leaking on cap.						
2310 - Leakage		121				121	
<b>302 - Compression Joint Seal</b>	1- Ben.	121	ft.	0	79	42	0
	3/26/2018 - KRM & RLS - Joints have lost adhesion and has missing joint armor at bents 1 and 2.						
2320 - Seal Adhesion		91			79	12	
7000 - Damage		30				30	



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## Element Inspection

<b>311 - Movable Bearing</b>	1- Ben.	16	each	0	13	3	0
3/26/2018 - KRM & RLS - All bearings have active corrosion, Bent 2 bearings 2 ,10 and 14 have broke anchorage bolts letting bearing rotate.  All bearings have active surface rust.							
1000 - Corrosion		13			13		
1020 - Connection		3				3	
<b>313 - Fixed Bearing</b>	1- Ben.	16	each	0	16	0	0
3/26/2018 - KRM & RLS - All bearings have active corrosion.							
1000 - Corrosion		16			16		
<b>321 - Reinforced Concrete Approach Slab</b>	1- Ben.	2880	sq. ft.	1828	10	1042	0
3/26/2018 - KRM & RLS - All approaches have large longitude cracks. Bent 2 east bound inside lane has settled up to 2".  Bent 1, westbound side, the approach slab has been patched. Bent 2, westbound, the approach slabs have settled and broken.							
1080 - Delamination/Spall/Patched Area		4			4		
1130 - Cracking (RC and Other)		48			6	42	
4000 - Settlement		1000				1000	
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	356	ft.	321	35	0	0
3/26/2018 - KRM & RLS - Spall on top of guard rail west bound north end and scattered cracks throughout structure.							
1080 - Delamination/Spall/Patched Area		4			4		
1130 - Cracking (RC and Other)		31			31		

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**Bridge Inspection Report**

**Pictures**

PHOTO 1

Description

PHOTO 1

Description

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**Bridge Inspection Report**

**Pictures**

PHOTO 2

Description

PHOTO 3

Description



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**Bridge Inspection Report**

**Sketches**

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/17/2016

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Approach slabs have large unsealed cracks. Eastbound north end of bridge inside lane has up to 2" settlement.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Eastbound north approach slab, large unsealed cracks and settlement on the outside lane.

Stage: Open



PHOTO 2      Description      Eastbound north end of bridge inside lane has up to 2" settlement.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/17/2016

Priority: B - Pressing; 6 month completion goal

Work Code:

---

#### Deficiency Description:

Top of abutment 2 has a large deep spall between joint and approach slab. Photo

#### Work Description:

---

#### Date Repairs Completed:

#### Maintenance Comments:

---

Stage: Open



PHOTO 1      Description      Bent 2 westbound large spalls filled with asphalt on top of back wall.



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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 03/17/2016

Priority: C - Important

Work Code:

---

### Deficiency Description:

Bearing at bent 2 abutment under girder 14 is working out due to missing anchor bolt. Photo Added on 3/26/2018 KRM & RLS Bent 2 girders 2 and 10 have missing anchorage bolts and bearing are working out.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Bent 2 girder 14 bearing has slide half out.

Stage: Monitor



PHOTO 2      Description      Bent 2 girder 10 is sliding out due to broken anchorage bolt.

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## Bridge Inspection Report

### Maintenance Needs

Stage: Open



PHOTO 2      Description      Bent 2 girder 2 bearing sliding out due to broken anchorage bolt.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/17/2016

Priority: B - Pressing; 6 month completion goal

Work Code:

---

#### Deficiency Description:

Potholes in roadway at all approach slabs on East and Westbound Lanes. Photo

#### Work Description:

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Date Repairs Completed:

#### Maintenance Comments:

Assigned Pulaski 2 06602 5/16/18

---

#### Stage: Assigned



PHOTO 1      Description      Eastbound north approach, large potholes.

#### Stage: Assigned



PHOTO 2      Description      Eastbound south approach, potholes in roadway at the approach slab.



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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 03/17/2016

Priority: B - Pressing; 6 month completion goal

Work Code: N/A

#### Deficiency Description:

There are potholes on the eastbound and westbound side at the ends of the approach slabs.  
Photos attached.

#### Work Description:

Date Repairs Completed:

#### Maintenance Comments:

Assigned Pulaski 2 06602 5/15/18

#### Stage: Open



PHOTO 1 Description Eastbound north approach, large potholes.

#### Stage: Open



PHOTO 2 Description Bent 1 westbound, potholes in roadway at approach.